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 Title: **JP2001060465A2: BATTERY**

 Country: **JP Japan**

 Kind: **A2 Document Laid open to Public inspection I**

 Inventor: **IWATA MIKIO;**

 Assignee: **JAPAN STORAGE BATTERY CO LTD**
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 Published / Filed: **2001-03-06 / 1999-08-23**

 Application Number: **JP1999000234976**

 IPC Code: **H01M 10/50;**

 Priority Number: **1999-08-23 JP1999000234976**

Abstract: PROBLEM TO BE SOLVED: To efficiently inhibit the heat generation by drawing out a terminal connected to an electrode of a generating element to the external through a cooling part in a case, and directly cooling the terminal by sending a coolant to the cooling part.

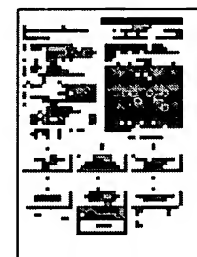
SOLUTION: In a lithium ion secondary battery 1, a positive electrode collector 4 is connected and fixed to a positive electrode terminal 6 formed by an aluminum rod member, and a negative electrode collector 5 is connected and fixed to a negative electrode terminal 7 formed by a copper rod member, respectively by caulking or the like. A battery case 3 is made of a stainless steel material, and consists of a case body 3a and a case lid 3b, and the case body 3a stores a generating element 2. The circumference of a partitioning plate 8 made of a stainless steel material, is sealed and fixed to an upper end of the case body 3a, and forms a space as a cooling part between the case body 3a and the case lid 3b. The positive electrode terminal 6 and the negative electrode terminal 7 are drawn out to the external through the cooling part. A coolant such as the insulating oil or liquid paraffin is circulated through an inlet 3c and an outlet 3d from an external cooling device.

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 Family: **None**

 Forward References: **Go to Result Set: [Forward references \(1\)](#)**

PDF	Patent	Pub.Date	Inventor	Assignee	Title
	US6586912	2003-07-01	Tsukamoto; Hisashi	Quallion LLC	Method and apparatus for amplitude limiting battery temperature spikes



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(30) Priority:

(43) Date of application
publication: **06.03.01**(84) Designated contracting
states:(71) Applicant: **JAPAN STORAGE BATTERY
LTD**(72) Inventor: **IWATA MIKIO**

(74) Representative:

(54) BATTERY

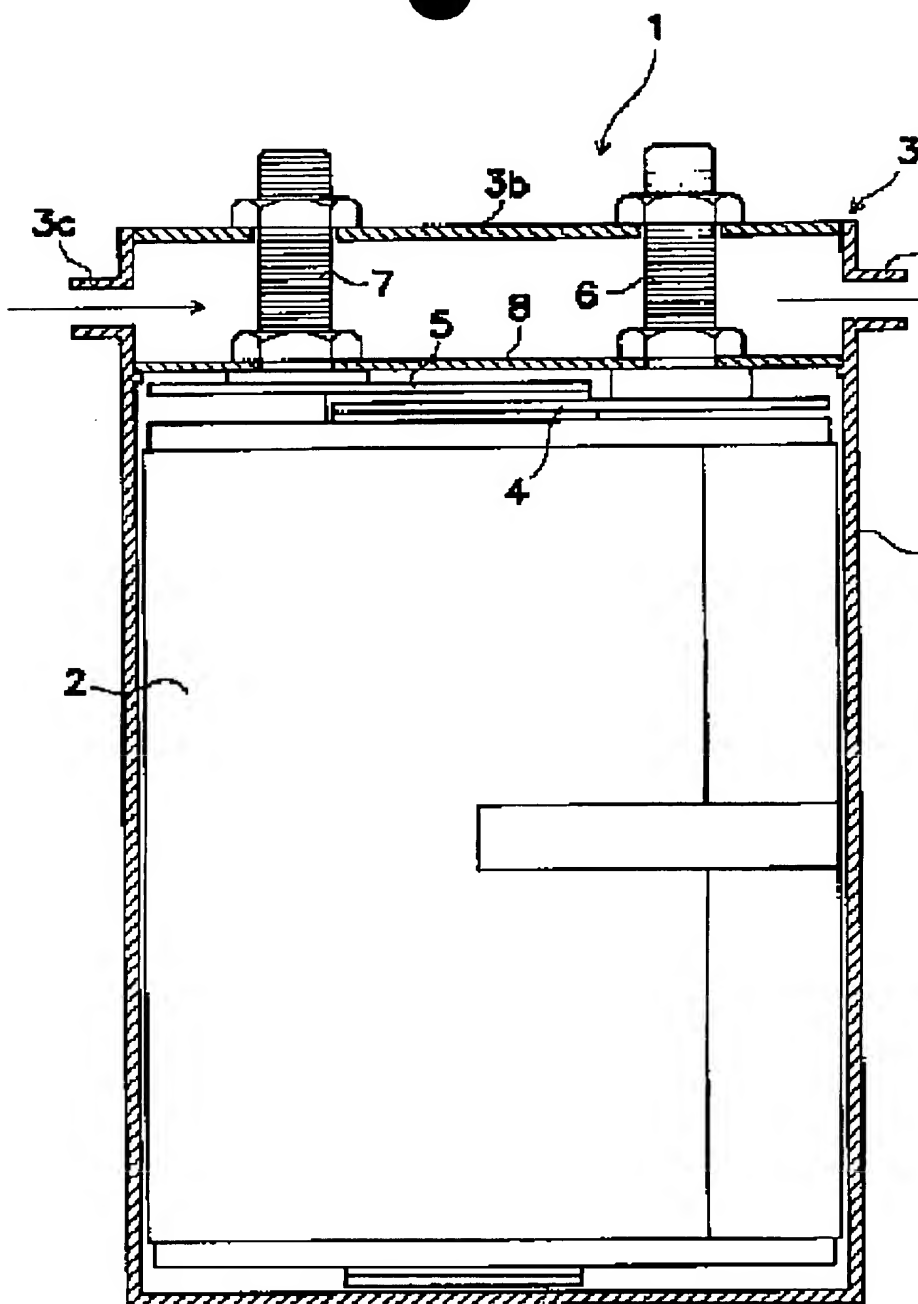
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